

**John Deere Agriculture**

**5083E and 5093E Tractors Repair Technical  
Manual (July 2013)**

# **REPAIR MANUAL**

**5083E, 5093E**



**TM607019, July 2013**



## Table of contents

### **FOREWORD**

#### **Section 10 - GENERAL INFORMATION**

- Group 05 - Safety
- Group 10 - General Specifications
- Group 20 - Fuel and Lubricants
- Group 25 - Serial Number Locations
- Group 30 - Features and Accessories

#### **Section 20 - ENGINE REPAIR**

- Group 05 - Engine
- Group 10 - Cooling System

#### **Section 30 - FUEL AND AIR REPAIR**

- Group 05 - Fuel System
- Group 10 - Air Intake System
- Group 15 - Speed Control Linkage

#### **Section 40 - ELECTRICAL REPAIR**

- Group 05 - Battery, Starter and Alternator
- Group 10 - Electrical System Components
- Group 15 - Wiring Harness

#### **Section 50 - POWER TRAIN REPAIR**

- Group 05 - Clutch Housing
- Group 11 - PTO Clutch
- Group 12 - PowrReverser™ Clutch
- Group 16 - Transmission
- Group 20 - Rear PTO Drive Shaft
- Group 25 - Differential
- Group 30 - Final Drives
- Group 35 - Mechanical Front Wheel Drive

#### **Section 60 - STEERING AND BRAKE REPAIR**

- Group 05 - Steering Repair
- Group 10 - Brake Repair

#### **Section 70 - HYDRAULIC REPAIR**

- Group 05 - Hydraulic Pump and Filter
- Group 06 - Hydraulic Oil Cooler
- Group 10 - Rockshaft
- Group 15 - Selective Control Valve
- Group 20 - Hydraulic Mid-Mount Control Valve
- Group 35 - Hydraulic Trailer Brake Valve

#### **Section 80 - MISCELLANEOUS REPAIR**

- Group 15 - 3-Point Hitch
- Group 20 - Fenders
- Group 25 - Hood

#### **Section 90 - OPERATOR STATION REPAIR**

- Group 05 - Seat and Support
- Group 06 - Control Console and Panel
- Group 15 - Cab Components
- Group 20 - Air Conditioning System
- Group 25 - Heating System

#### **Section 99 - DEALER FABRICATED TOOLS**

- Group 05 - Dealer Fabricated Tools



## Foreword

This manual is written for an experienced technician. Essential tools required in performing certain service work are identified in this manual and are recommended for use.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.

---

### **CAUTION:**

---

This is the safety-alert symbol. When you see this symbol on the machine or in this manual, be alert to the potential for personal injury.

Technical manuals are divided in two parts: repair and operation and tests. Repair sections tell how to repair the components. Operation and tests sections help you identify the majority of routine failures quickly.

Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job, service parts kits, specifications, wear tolerances, and torque values.

Technical Manuals are concise guides for specific machines. They are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.



Thank you very much  
for your reading.  
Please click here  
to get more information.